Supplementary Table 2. Unmatched univariate analysis for mechanical cardiopulmonary resuscitation of witnessed arrest patients.

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| **UNMATCHED** | AUTOPULSEN=422 | LUCASN=95 | p-value\* |
| Age, year | 68.0 (57.0-78.0) | 69.0 (56.0-77.5) | 0.847 |
| Male | 279 (66.1 %) | 66 (69.5 %) | 0.612 |
| Place  |  |  | 0.124 |
|  Non-public | 351 (83.2 %) | 72 (75.8 %) |  |
| Public | 71 (16.8 %) | 23 (24.2 %) |  |
| Bystander CPR | 132 (31.3 %) | 30 (31.6 %) | 1.000 |
| Arrest cause |  |  | 0.070 |
|  Cardiac | 382 (90.5 %) | 92 (96.8 %) |  |
|  Non-cardiac | 40 (9.5 %) | 3 (3.2 %) |  |
| Arrest rhythm |  |  | 0.400 |
| Non-shockable | 343 (81.3 %) | 73 (76.8 %) |  |
| Shockable | 79 (18.7 %) | 22 (23.2%) |  |
| PCI | 10 (2.4 %) | 7 (7.4 %) | 0.032 |
| TTM | 37 (8.8 %) | 9 (9.5 %) | 0.985 |
| Pacemaker | 0 (0 %) | 0 (0 %) | N/A |
| ECMO | 16 (3.8 %) | 10 (10.5 %) | 0.014 |
| Sustained ROSC | 154 (36.5 %) | 29 (30.5 %) | 0.327 |
| Survival to discharge | 29 (6.9 %) | 2 (2.1 %) | 0.126 |

Categorical and continuous variables are represented by number (%) and median (interquartile range), respectively.

\*Calculated by Mann-Whitney test for continuous variables, and chi-square or Fisher’s exact test for categorical variables.

CPR, cardiopulmonary resuscitation; PCI, percutaneous coronary intervention; TTM, target temperature management; N/A, not available; ECMO, extracorporeal cardiopulmonary support; ROSC, return of spontaneous circulation.